

1. A reflector comprising:

a sidewall defining a perimeter surrounding an interior region; and

a plurality of intersecting curved reflective surfaces disposed in the interior region, each curved reflective surface defining an off-axis reflector segment having a focus disposed at the perimeter and oriented to reflect light emanating from its focus out a reflector aperture defined by the sidewall.

2. The reflector as set forth in claim 1, wherein the curved reflective surfaces are parabolic reflective surfaces, each parabolic reflective surface defining an off-axis parabolic reflector segment.

3. The reflector as set forth in claim 2, wherein the perimeter is generally circular.

4. The reflector as set forth in claim 3, wherein the plurality of intersecting curved reflective surfaces include three intersecting curved reflective surfaces having three lines of intersection.

5. The reflector as set forth in claim 3, wherein the plurality of intersecting curved reflective surfaces include three intersecting curved reflective surfaces arranged with a three-fold rotational symmetry respective to a center of the generally circular perimeter.

6. The reflector as set forth in claim 1, wherein the sidewall comprises:

a thermally conductive material providing heat-sinking for associated light emitting elements disposed at the foci of the off-axis reflector segments.

7. The reflector as set forth in claim 1, wherein each curved reflective surface is disposed along a portion of the perimeter.

8. The reflector as set forth in claim 7, wherein each curved reflective surface defining an off-axis reflector segment has its focus disposed at a portion other than the portion of the perimeter along which the curved reflective surface is disposed.

9. The reflector as set forth in claim 7, wherein each curved reflective surface defining an off-axis reflector segment has its focus disposed at an opposite side of the perimeter from the portion of the perimeter along which the curved reflective surface is disposed.

10. The reflector as set forth in claim 7, wherein for each of the plurality of intersecting curved reflective surfaces, a line connecting the reflector segment focus and the portion of the perimeter along which the curved reflective surface defining the reflector segment is disposed crosses passes over at least one other reflector segment.

11. An apparatus comprising:

a generally concave reflector including a plurality of off-axis reflector segments; and

a plurality of light emitting elements corresponding to the plurality of off-axis reflector segments, each light emitting element being disposed at a focus of a corresponding off-axis reflector segment and arranged to illuminate that segment.

12. The apparatus as set forth in claim 11, wherein each light emitting element is disposed near an outer perimeter of the generally concave reflector.

13. The apparatus as set forth in claim 11, wherein each light emitting element is disposed near an outer perimeter of the generally concave reflector distal from its corresponding off-axis reflector segment.

14. The apparatus as set forth in claim 11, wherein each light emitting element is disposed across the generally concave reflector from its corresponding off-axis reflector segment.

15. The apparatus as set forth in claim 11, wherein the generally concave reflector further includes:

a sidewall surrounding the plurality of off-axis reflector segments, the plurality of light emitting elements being disposed on an interior of the sidewall.

16. A lamp comprising:

a reflector including a plurality of off-axis reflector segments each having a focus at a perimeter of the reflector; and

a plurality of light emitting elements disposed at the foci of the off-axis reflector segments.

17. The lamp as set forth in claim 16, wherein each off-axis reflector segment has its focus disposed at a perimeter of one or more other off-axis reflector segments.

18. The lamp as set forth in claim 16, wherein the off-axis reflector segments are selected from a group consisting of:

an off-axis parabolic reflector segment, and

an off-axis spherical reflector segment.

19. The lamp as set forth in claim 16, wherein the light emitting elements are defocused relative to the off-axis reflector segments to produce a diverging lamp illumination.

20. The lamp as set forth in claim 16, wherein the reflector further includes:

a sidewall corresponding to the perimeter of the reflector, the plurality of light emitting elements being disposed on the sidewall.